

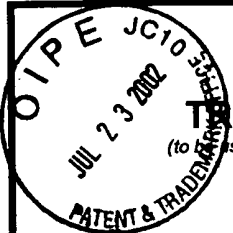
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PTO/SB/21 REV 1 (12/97)

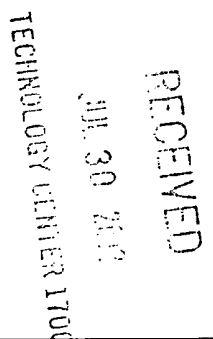
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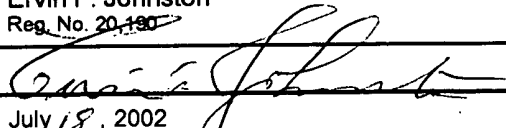
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|                                                                                                                                                                      |                      |                        |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|----------|
|  <b>TRANSMITTAL FORM</b><br>(to be used for all correspondence after initial filing) | Application Number   | 09/458,581             |          |
|                                                                                                                                                                      | Filing Date          | 12/09/99               |          |
|                                                                                                                                                                      | First Named Inventor | M. Pinarbasi           |          |
|                                                                                                                                                                      | Examiner Name        | R. McDonald            |          |
|                                                                                                                                                                      | Group Art Unit       | 1753                   |          |
| Total Number of Pages in This Submission                                                                                                                             | 33 + postcard        | Attorney Docket Number | SA998141 |

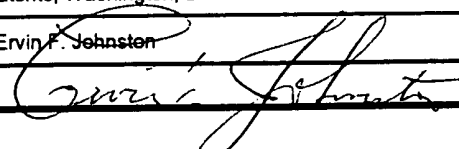
**ENCLOSURES (check all that apply)**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input checked="" type="checkbox"/> Amendment/Response<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Preliminary Amendment<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Supplemental Information Disclosure Statement<br><input type="checkbox"/> PTO Form 1449<br><input type="checkbox"/> ( ) cited references<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><input type="checkbox"/> PTO Form 1533<br><input type="checkbox"/> Response to Missing Parts Under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment w/Recordation Sheet<br><input type="checkbox"/> Drawing(s)<br><input checked="" type="checkbox"/> Request for Drawing Amendment<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition Checklist and Accompanying Petition<br><input type="checkbox"/> To Convert a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br><input type="checkbox"/> Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer | <input type="checkbox"/> After Allowance Communication to Group<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below):<br><u>POSTCARD</u><br>_____<br>_____ |
| <b>Remarks:</b><br><div style="text-align: right;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

|                         |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|
| Firm or Individual Name | Ervin F. Johnston<br>Reg. No. 20,190                                                |
| Signature               |  |
| Date                    | July 18, 2002                                                                       |

**CERTIFICATE OF MAILING**

|                                                                                                                                                                                                                                                      |                                                                                     |      |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|---------------|
| I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:<br>Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: <u>July 18, 2002</u> |                                                                                     |      |               |
| Typed or printed name                                                                                                                                                                                                                                | Ervin F. Johnston                                                                   |      |               |
| Signature                                                                                                                                                                                                                                            |  | Date | July 18, 2002 |

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**FEE TRANSMITTAL**

Patent fees are subject to annual revision on October 1.

These are the fees effective November 10, 1998.

Small Entity payments must be supported by a small entity statement,  
otherwise large entity fees must be paid. See Forms PTO/SB/09-12  
See 37 C.F.R. §§ 1.27 and 1.28**TOTAL AMOUNT OF PAYMENT****\$1,932.00**

Complete If Known

Application Number 09/458,581

Filing Date 12/09/99

First Named Inventor Pinarbasi

Examiner Name R. McDonald

Group / Art Unit 1753

Attorney Docket No. SA998141

**METHOD OF PAYMENT (check one)**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees
- 
- and credit any overpayment to:

Deposit Account Number 09-0442  
Deposit Account Name International Business Machines Corporation  
☒ Charge Any Additional Fee Required Under 37  
CFR 1.16 and 1.17 ☐ Charge the Issue Fee Set in  
37 CFR 1.18 at the Mailing  
of the Notice of Allowance.  
37 CFR 1.311(b)

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Money Order ☐ Other**FEE CALCULATION**1. **BASIC FILING FEE**

| Large Entity<br>Fee Code (\$) | Small Entity<br>Fee Code (\$) | Fee Description        | Fee Paid |
|-------------------------------|-------------------------------|------------------------|----------|
| 101 740                       | 201 370                       | Utility filing fee     |          |
| 106 330                       | 206 165                       | Design filing fee      |          |
| 107 510                       | 207 255                       | Plant filing fee       |          |
| 108 740                       | 208 370                       | Reissue filing fee     |          |
| 114 160                       | 214 80                        | Provisional filing fee |          |
| <b>SUBTOTAL (1) (\$)</b>      |                               |                        |          |

2. **EXTRA CLAIM FEES**

| Total Claims              | Extra Claims | Fee from below | Fee Paid        |
|---------------------------|--------------|----------------|-----------------|
| 64                        | 54**         | 10 x 18        | 180.00          |
| Independent Claims        | 14           | 11**           | 3 x 84 = 252.00 |
| Multiple Dependent Claims |              |                |                 |

\*\* or number previously paid, if greater; For Reissues, see below

| Large Entity<br>Fee Code (\$) | Small Entity<br>Fee Code (\$) | Fee Description                                               | Fee Paid |
|-------------------------------|-------------------------------|---------------------------------------------------------------|----------|
| 103 18                        | 203 9                         | Claims in excess of 20                                        |          |
| 102 80                        | 202 40                        | Independent claims in excess of 3                             |          |
| 104 270                       | 204 135                       | Multiple dependent claim                                      |          |
| 109 80                        | 209 40                        | ** Reissue independent claims<br>over original patent         |          |
| 110 18                        | 210 9                         | ** Reissue claims in excess of 20<br>and over original patent |          |
| <b>SUBTOTAL (2) (\$)</b>      |                               |                                                               | 432.00   |

**FEE CALCULATION (continued)**3. **ADDITIONAL FEES**

| Large Entity<br>Fee Code (\$) | Small Entity<br>Fee Code (\$) | Fee Description                                                               | Fee Paid |
|-------------------------------|-------------------------------|-------------------------------------------------------------------------------|----------|
| 105 130                       | 205 65                        | Surcharge - late filing fee or oath                                           |          |
| 147 2,520                     | 147 2,520                     | For filing a request for reexamination                                        |          |
| 112 920*                      | 112 920*                      | Requesting publication of SIR prior to<br>Examiner action                     |          |
| 113 1,840*                    | 113 1,840*                    | Requesting publication of SIR after<br>Examiner action                        |          |
| 115 110                       | 215 55                        | Extension for response within first month                                     |          |
| 116 400                       | 216 200                       | Extension for response within second month                                    |          |
| 117 920                       | 217 460                       | Extension for response within third month                                     |          |
| 118 1,440                     | 218 720                       | Extension for response within fourth month                                    |          |
| 128 1,960                     | 228 980                       | Extension for response within fifth month                                     |          |
| 119 320                       | 219 160                       | Notice of Appeal                                                              |          |
| 120 320                       | 220 160                       | Filing a brief in support of an appeal                                        |          |
| 121 280                       | 221 140                       | Request for oral hearing                                                      |          |
| 138 1,510                     | 138 1,510                     | Petition to institute a public use proceeding                                 |          |
| 140 110                       | 240 55                        | Petition to revive unavoidably abandoned<br>application                       |          |
| 141 1,280                     | 241 640                       | Petition to revive unintentionally<br>abandoned application                   |          |
| 142 1,280                     | 242 640                       | Utility issue fee (or reissue)                                                |          |
| 143 460                       | 243 230                       | Design issue fee                                                              |          |
| 144 620                       | 244 310                       | Plant issue fee                                                               |          |
| 122 130                       | 122 130                       | Petitions to the Commissioner                                                 |          |
| 126 180                       | 126 180                       | Submission of Information Disclosure Stmt                                     |          |
| 581 40                        | 581 40                        | Recording each patent assignment per<br>property (times number of properties) |          |
| 146 740                       | 246 370                       | Filing a submission after final rejection<br>(37 CFR 1.129(a))                |          |
| 149 740                       | 249 370                       | For each additional invention to be<br>examined (37 CFR 1.129(b))             |          |
| 179 740                       | 249 370                       | Request for continued examination (RCE)<br>(37 CFR 1.114)                     |          |

Other fee (specify)

Other fee (specify)

**SUBTOTAL (3) (\$)**

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY**

Typed or Printed Name

Ervin F. Johnston

Signature

**COMPLETE (if applicable)**

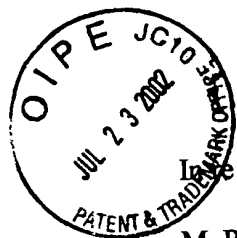
Reg. Number

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Date

July 18, 2002

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ORIGINALLY FILEDFEE VALUE  
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DEPOSIT ACCOUNT NO.  
FEE CODE  
VALUE  
FURNISHED



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor Application of:

M. Pinarbasi

Serial No.: 09/458,581

Filed: 12/09/99

For: SPIN VALVE SENSOR FREE LAYER  
STRUCTURE WITH A COBALT  
BASED LAYER THAT PROMOTES  
MAGNETIC STABILITY AND  
HIGH MAGNETORESISTANCE

Group No.: 1753

Examiner: Rodney McDonald

Docket No. SA998141

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

**REQUEST FOR DRAWING AMENDMENT**

Please amend FIG. 4 as indicated on the attached redline drawing sheet.

Respectfully submitted,

Ervin F. Johnston

Attorney for Applicants

Reg. No. 20,190

Telephone: 619-334-5883

Fax: 619-448-1904

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JUL 30 2002

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